



1756

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE PATENT APPLICATION OF: J. WILLIAM DOANE et al.

Serial No. 09/937,210 Examiner: Shean C. Wu
Filed: September 24, 2001 Group Art Unit 1756
Title: CHIRAL ADDITIVES FOR CHOLESTERIC DISPLAYS
Docket No.: KENT 36180

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

LETTER

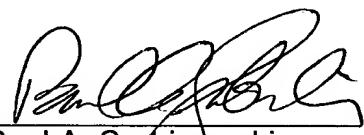
In response to PTO paper mailed October 23, 2003, enclosed are the following:

1. Submission Under Rule 3.73(b) submitted by Kent State University, Assignee.
2. Submission Under Rule 3.73(b) submitted by Kent Displays, Inc. Assignee.
3. Revocation and Power of Attorney.

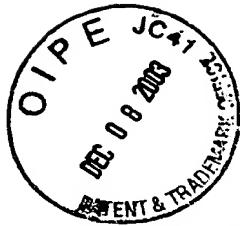
Please make the above-identified documents of record in this application.

Date: December 4, 2003

Respectfully submitted,



Paul A. Serbinowski,
Reg. No. 34,329



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE PATENT APPLICATION OF: J. WILLIAM DOANE et al.

Serial No. 09/937,210 Examiner: Shean C. Wu
Filed: September 24, 2001 Group Art Unit 1756
Title: CHIRAL ADDITIVES FOR CHOLESTERIC DISPLAYS
Docket No.: KENT 36180

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REVOCATION AND POWER OF ATTORNEY

The undersigned, owner of the entire right, title and interest in and to an application for letters patent for CHIRAL ADDITIVES FOR CHOLESTERIC DISPLAYS, Serial No. 09/937,210, filed September 24, 2001, hereby revokes all previous powers of attorney granted in connection with this patent application. Having revoked all previous powers of attorney, the undersigned hereby makes and gives the following power of attorney, to be effective prospectively from this date: I hereby appoint each of the following attorneys, all of whom are associated with Pearne & Gordon LLP (Customer No. 00116) Telephone No. 216-579-1700, as attorneys of record to prosecute this application and to transact all business in the Patent Office connected therewith: Richard A. Sharpe, Reg. No. 34,722; Paul A. Serbinowski, Reg. No. 34,429; Lowell L. Heinke, Reg. No. 19,471; Thomas P. Schiller, Reg. No. 20,677; David B. Deioma, Reg. No. 22,841; Joseph J. Corso, Reg. No. 25,845; Howard J. Shimola, Reg. No. 26,232; Jeffrey J. Sopko, Reg. No. 27,676; John P. Murtaugh, Reg. No. 34,226; James M. Moore, Reg. No. 32,923; Michael W. Garvey, Reg. No. 35,878; Ronald M. Kachmarik, Reg. No. 34,512; Brian G. Bembenick, Reg. No. 41,463; Aaron A. Fishman, Reg. No. 44,682; Robert F. Bodi, Reg. No. 48,540; Suzanne B. Gagnon, Reg. No. 48,924; Una L. Schumacher, Reg. No. 48,998 and Steven J. Solomon, Reg. No. 47,719.

And hereby appoints the foregoing Richard A. Sharpe, Reg. No. 34,722 principal attorney.

And hereby designates as mailing address the office of:

PEARNE & GORDON LLP
1801 East 9th Street, Ste. 1200
Cleveland, Ohio 44114-3108
(216)579-1700 - telephone
(216)579-6073 - facsimile

This appointment shall include all power to prosecute and transact all business relating to all applications corresponding to the referenced application in all countries, including all regional and international patent offices, such as, but not limited to, the European Patent Office and all offices and bureaus established in accordance with the Patent Cooperation Treaty. I hereby further designate and appoint any officer of Pearne & Gordon LLP, my attorney in fact with full power of substitution and revocation, including power to designate and substitute a principal attorney.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sections 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issued thereon.

Date 10013, 2003

Kent State University

John L. West

Name: John L. West
Title: VP and Dean



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE PATENT APPLICATION OF: J. WILLIAM DOANE et al.

Serial No. 09/937,210 Examiner: Shean C. Wu
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P.O. Box 1450
Alexandria, VA 22313-1450

REVOCATION AND POWER OF ATTORNEY

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And hereby appoints the foregoing Richard A. Sharpe, Reg. No. 34,722 principal attorney.

And hereby designates as mailing address the office of:

PEARNE & GORDON LLP
1801 East 9th Street, Ste. 1200
Cleveland, Ohio 44114-3108
(216)579-1700 - telephone
(216)579-6073 - facsimile

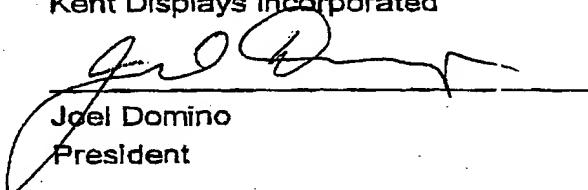
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sections 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issued thereon.

Date

10/10/02

Kent Displays Incorporated


Joel Domino
President

New Attorney's Docket No. KENT.36180
Previous Attorney Docket No: KD-01-004US

Patent

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:	JOSEPH W. DOANE ET AL.	
Application No.:	09/937,210	Examiner: WU, SHEAN CHIU
Filing Date:	09/24/2001	Art Unit: 1756
Title:	CHIRAL ADDITIVES FOR CHOLESTERIC DISPLAYS	

Submission Under Rule 3.73(b)

In response to the PTO paper mailed October 23, 2003, pursuant to Rule 3.73(b), this is a submission establishing assignees' right to take action in this application. The action that is to be taken is revoking all Previous Powers of Attorney and recording an assignment. Revocation and Power of Attorney documents are filed concurrently herewith.

The assignees who have the right to take action are Kent Displays Inc. and Kent State University. The copy of an assignment document (Attachment A hereto) establishes ownership in assignees Kent Displays, Inc. and Kent State University as well as the chain of title from inventors, Messrs. Doane, Khan and Seed to assignees by the following excerpt of the assignment:

We [assignor inventors Doane, Khan and Seed] hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) referred to above [i.e., 09/937,210]... unto said Assignees [Kent Displays, Inc. and Kent State University] who will hold said rights, title and interest in equal shares.

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters Patent which may issue for said Invention to said Assignees, as co-assignees of the whole right, title and interest thereto.

The assignment document was recorded under Reel/Frame No. 012/913/0254- incorrectly in the name of Kent Displays, Inc. alone. This error apparently arose because the previous attorney handling this application, who is now deceased, listed only Kent Displays, Inc. as assignee on the assignment recordation cover sheet. However, the assignment submitted with that cover sheet and enclosed again herewith *correctly lists both Kent Displays, Inc. and Kent State University as assignees*. A new assignment recordal request is filed herewith, requesting assignment in the name of both Kent State University and Kent Displays, Inc.

As set forth in the above excerpt from the assignment, both Kent Displays, Inc. and Kent State University share an equal ownership interest in the entire invention and patent application. We, the undersigned, are authorized to act on behalf of the assignees.

Kent Displays Inc.

By: 

Name: J. WILLIAM DOANE

Title: Chief Technology Officer

Date: 11/07/03

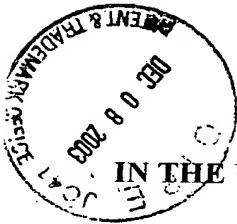
Kent State University

By: _____

Name: _____

Title: _____

Date: _____



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
ASSIGNMENT BRANCH

PATENT

Pearne & Gordon LLP
Ohio Savings Plaza
1801 East 9th St.
Suite 1200
Cleveland, Ohio 44114-3108
Telephone: (216) 579-1700
Docket No.: KENT.36180

Commissioner of Patents and Trademarks
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Please rerecord the attached original document(s) or copy thereof as follows:

Conveying Party: Joseph W. Doane, Asad A. Khan and Alexander J. Seed

Receiving Party: Kent Displays, Inc.
Address: 343 Portage Blvd.
Kent, OH 44240

Kent State University
P.O. Box 5190
Kent, Ohio 44242

Nature of Conveyance: Assignment

Date of Execution: October 11, 2001
Please record against:

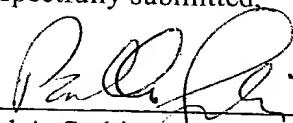
Patent No(s): N/A
Application No(s): 09/937,210, filed September 24, 2001

No. of Patent(s): N/A
No. of Application(s): 1

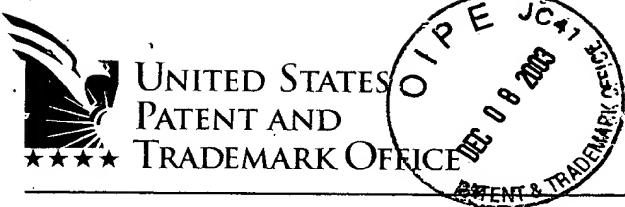
A check in the amount of \$40.00 for the rerecordal fees is enclosed. Please charge any additional fees, or credit any overpayment, to deposit account 16,0820 (our docket KENT.36180).

To my best knowledge and belief, the foregoing information is true and correct. Please correspond with Pearne & Gordon LLP at the above address.

Respectfully submitted,


Paul A. Serbinowski

December 4, 2003
Date



Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

AUTHORIZATION TO CHARGE ADDITIONAL FEES TO DEPOSIT



JULY 23, 2002

102102493B

TO: OFFICE OF FINANCE
FROM: ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS
SUBJECT: DEPOSIT ACCOUNT CHARGE(S)

CHARGE THE DEPOSIT ACCOUNT LISTED BELOW ADDITIONAL FEE(S) AS INDICATED BELOW. AUTHORIZATION TO CHARGE ADDITIONAL FEES HAS BEEN PROVIDED PER THE ATTACHED COVER SHEET, OR BY DIRECT CONTACT WITH THE CUSTOMER.

DEPOSIT ACCOUNT NUMBER: 162372
PROPERTY NUMBER: 09937210

RECORDING FEES:

FEE CODE: 581 AMOUNT: 40

IF YOU HAVE ANY QUESTIONS REGARDING THIS NOTICE, YOU MAY CONTACT THE INDIVIDUAL WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.

TARA WASHINGTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

TRADEMARK SERVICE FEES: FEE CODE:

RECORDING FIRST MARK	481
RECORDATION SECOND AND	482
SUBSEQUENT MARK IN SAME DOCUMENT	
LABOR CHARGES FOR SERVICES PER HOURS	484
OR FRACTION THEREOF	
UNSPECIFIED OTHER SERVICES	485

PATENT SERVICE FEES:

RECORDING EACH PATENT ASSIGNMENT,	581
AGREEMENT, OTHER PAPER, PER PROPERTY	

LABOR CHARGES FOR SERVICES PER HOUR	584
(\$30) OR FRACTION THEREOF	
UNSPECIFIED OTHER SERVICES	585

DEC 08 2002
OCT 24-2002
102102493

cket No.: KD-01-004US

ET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

1756

Tab settings

APR 30 2002

102102493

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies)

DOANE, Joseph W.
KHAN, Asad A.
SEED, Alexander J.

5-6-02

2. Name and address of receiving party(ies):

Name: KENT DISPLAYS, INC.

Address: 343 Portage Blvd.

Additional names(s) of conveying party(ies)

Yes No

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: September 24, 2001

City: KENT State/Prov.: OH

Country: US ZIP: 44240

Additional name(s) & address(es) Yes No

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: _____

Patent Application No.

Filing date

B. Patent No.(s)

210
09/937,204

September 24, 2001

Additional numbers

Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Raymond H. J. Powell, Jr.

Registration No. 34,231

Address: WESTERLUND · POWELL, P.C.

100 Daingerfield Rd.

Suite 100

City: Alexandria State/Prov.: VA

Country: US ZIP: 22314

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 40.00

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account

8. Deposit account number:

16-2372

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Raymond H. J. Powell, Jr.

04/30/2002

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

6

RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

PATENTS ONLY

Tab settings → → →

To the Honorable Commissioners of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): DOANE, Joseph W. KHAN, Asad A. SEED, Alexander J.		2. Name and address of receiving party(ies): Name: KENT DISPLAYS, INC. Address: 343 Portage Blvd.
Additional names(s) of conveying party(ies): APR 3 0 2002		<input type="checkbox"/> Yes <input type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____		City: KENT State/Prov.: OH Country: US ZIP: 44240
Execution Date: September 24, 2001		Additional name(s) & address(es) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4. Application number(s) or patent numbers(s): If this document is being filed together with a new application, the execution date of the application is: Patent Application No. 210 09/937,201 Filing date September 24, 2001		B. Patent No.(s) RECEIVED MAY 17 2002 TC 1700
Additional numbers		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Raymond H. J. Powell, Jr. Registration No. 34,231 Address: WESTERLUND · POWELL, P.C. 100 Daingerfield Rd. Suite 100 City: Alexandria State/Prov.: VA Country: US ZIP: 22314		6. Total number of applications and patents involved: 1 RECEIVED MAY 06 2002 TC 1700
		7. Total fee (37 CFR 3.41): \$ 40.00 <input type="checkbox"/> Enclosed - Any excess or insufficiency should be credited or debited to deposit account <input checked="" type="checkbox"/> Authorized to be charged to deposit account
8. Deposit account number: 16-2372		(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.***Raymond H. J. Powell, Jr.**

Name of Person Signing

Signature

04/30/2002

Date

6

Total number of pages including cover sheet, attachments, and



UNITED STATES
PATENT AND
TRADEMARK OFFICE



JULY 23, 2002

PTAS

WESTERLUND POWELL, P.C.
RAYMOND H. J. POWELL, JR.
100 DAINGERFIELD RD. SUITE 100
ALEXANDRIA, VA 22314

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov



102102493A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF
THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS
AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER
REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE
INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA
PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD
FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY
CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.
PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE,
ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,
SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/06/2002

REEL/FRAME: 012913/0254
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

DOANE, JOSEPH W.

DOC DATE: 09/24/2001

ASSIGNOR:

KHAN, ASAD A.

DOC DATE: 09/24/2001

ASSIGNOR:

SEED, ALEXANDER J.

DOC DATE: 09/24/2001

ASSIGNEE:

KENT DISPLAYS, INC.
343 PORTAGE BLVD.
KENT, OHIO 44240

SERIAL NUMBER: 09937210
PATENT NUMBER:

FILING DATE: 09/24/2001
ISSUE DATE:

TARA WASHINGTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

Assignment of Rights, Title and Interest in Invention (Multiple inventors; multiple assignees)

Docket No.
KD-01-004US

This is an Assignment of the following rights, title and interest: (check all that apply):

United States of America rights, title and interest in the invention

Foreign rights, title and interest in the invention

United States Patent Application Serial No. 09/937,210

APR 30 2002 Date of Execution: 09/24/2001

Date of Filing: 09/24/2001

United States Provisional Patent Application Serial No. 60/210,485 (June 9, 2000)

United States Patent No(s).

International (PCT) Patent Application Serial No. PCT/US01/14842 (June 8, 2001)

Other (specify)

Title of the Invention

CHIRAL ADDITIVES FOR CHOLESTERIC DISPLAYS

Inventors (assignors)

<i>Name</i>	<i>Address</i>
Joseph W. Doane	340 Oakwood Drive, Kent OH 44240 USA
Asad A. Khan	901 Admore Drive, Kent OH 44240 USA
Alexander J. Seed	4071 Baird Road, Stow OH 44224 USA

RECEIVED
MAY 17 2002
TC 1700

**Assignment of Rights, Title and Interest in Invention
(Multiple inventors; multiple assignees)**

Docket No.
KD-01-004US

Assignees

<i>Name</i>	<i>Address</i>
KENT DISPLAYS, INC.	343 Portage Blvd. Kent OH 44240
KENT STATE UNIVERSITY	P.O. Box 5190 Kent, OH 44242

Assignment of Rights, Title and Interest in Invention (Multiple inventors; multiple assignees)

Docket No.
KD-01-004US

Whereas, we, the above-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

And, whereas we desire to assign our above-identified rights, title and interest in the Invention to the above-identified Assignees;

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said Invention based upon said application(s) as identified above, said patents, domestic and foreign as identified above, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of said application(s) for patents or securing of patents in the United States and countries foreign thereto, unto said Assignees, who will hold said rights, title and interest in equal shares;

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters Patent which may issue for said Invention to said Assignees, as co-assignees of the whole right, title and interest thereto;

And we further agree to sign and execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for our aforesaid Invention, as the Assignees or their Designee(s) may from time to time require and prepare at their own expense.

Inventors' Signatures (if Notarization is desired, do not sign here and proceed to next page)

Assignment of Rights, Title and Interest in Invention
(Multiple inventors; multiple assignees)

Docket No.
KD-01-004US

Notarization

(Although notarization is not necessary, it will be considered *prima facie* evidence of execution pursuant to 35 U.S.C. 261.)

Executed this 11 day of October , in the year 2001

at
Kent Displays, Inc.

State of Ohio

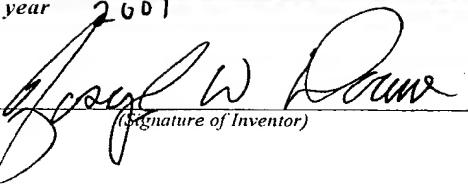
County of Portage

Before me personally appeared Joseph W. Doane

who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to execute the same this 11 day of October , in the year 2001

SUSAN M. HENSLEY

NOTARY PUBLIC, STATE OF OHIO
MY COMMISSION EXPIRES AUG. 2, 2004


(Signature of Inventor)

Executed this 11 day of October , in the year 2001

at
Kent Displays, Inc.

State of Ohio

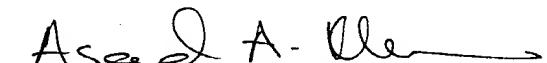
County of Portage

Before me personally appeared Asad A. Khan

who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to execute the same this 11 day of October , in the year 2001

SUSAN M. HENSLEY

NOTARY PUBLIC, STATE OF OHIO
MY COMMISSION EXPIRES AUG. 2, 2004


(Signature of Inventor)

Executed this 11th day of October , in the year 2001

at
Kent,

State of Ohio

County of Portage

Before me personally appeared Alexander J. Seed

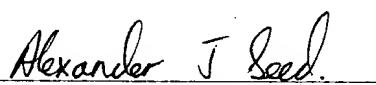
who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to execute the same this 11th day of October , in the year 2001

ELAINE M. LANDRY, Notary Public

97 NT0262

State Wide Jurisdiction, Ohio

My Commission Expires Sept. 1, 2002


(Signature of Inventor)



New Attorney Docket No: KENT.36180
Previous Attorney Docket No: KD-01-004US

Patent

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the JOSEPH W. DOANE ET AL.
Application of:

Examiner: WU, SHEAN
CHIU

Application No.: 09/937,210

Art Unit: 1756

Filing Date: 09/24/2001

Title: CHIRAL ADDITIVES FOR CHOLESTERIC DISPLAYS

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We [assignor inventors Doane, Khan and Seed] hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) referred to above [i.e., 09/937,210]... unto said Assignees [Kent Displays, Inc. and Kent State University] who will hold said rights, title and interest in equal shares.

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters Patent which may issue for said Invention to said Assignees, as co-assignees of the whole right, title and interest thereto.

The assignment document was recorded under Reel/Frame No. 012/913/0254- incorrectly in the name of Kent Displays, Inc. alone. This error apparently arose because the previous attorney handling this application, who is now deceased, listed only Kent Displays, Inc. as assignee on the assignment recordation cover sheet. However, the assignment submitted with that cover sheet and enclosed again herewith *correctly lists both Kent Displays, Inc. and Kent State University as assignees*. A new assignment recordal request is filed herewith, requesting assignment in the name of both Kent State University and Kent Displays, Inc.

As set forth in the above excerpt from the assignment, both Kent Displays, Inc. and Kent State University share an equal ownership interest in the entire invention and patent application. We, the undersigned, are authorized to act on behalf of the assignees.

Kent Displays Inc.

By: _____

Name: _____

Title: _____

Date: _____

Kent State University

By: John L. West

Name: John L. West

Title: VP and Dean

Date: Nov 13, 2003



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
ASSIGNMENT BRANCH

PATENT

Pearne & Gordon LLP
Ohio Savings Plaza
1801 East 9th St.
Suite 1200
Cleveland, Ohio 44114-3108
Telephone: (216) 579-1700
Docket No.: KENT.36180

Commissioner of Patents and Trademarks
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Please rerecord the attached original document(s) or copy thereof as follows:

Conveying Party: Joseph W. Doane, Asad A. Khan and Alexander J. Seed

Receiving Party: Kent Displays, Inc.

Address: 343 Portage Blvd.
Kent, OH 44240

Kent State University
P.O. Box 5190
Kent, Ohio 44242

Nature of Conveyance: Assignment

Date of Execution: October 11, 2001

Please record against:

Patent No(s): N/A

Application No(s): 09/937,210, filed September 24, 2001

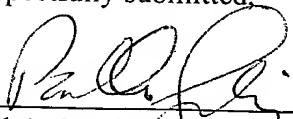
No. of Patent(s): N/A

No. of Application(s): 1

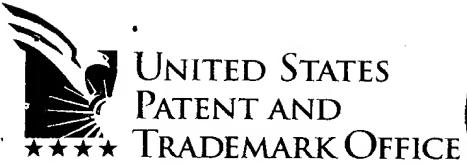
A check in the amount of \$40.00 for the rerecordal fees is enclosed. Please charge any additional fees, or credit any overpayment, to deposit account 16,0820 (our docket KENT.36180).

To my best knowledge and belief, the foregoing information is true and correct. Please correspond with Pearne & Gordon LLP at the above address.

Respectfully submitted,


Paul A. Serbinowski

December 4, 2003
Date



Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

AUTHORIZATION TO CHARGE ADDITIONAL FEES TO DEPOSIT

JULY 23, 2002

102102493B

TO: OFFICE OF FINANCE
FROM: ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS
SUBJECT: DEPOSIT ACCOUNT CHARGE(S)

CHARGE THE DEPOSIT ACCOUNT LISTED BELOW ADDITIONAL FEE(S) AS INDICATED BELOW. AUTHORIZATION TO CHARGE ADDITIONAL FEES HAS BEEN PROVIDED PER THE ATTACHED COVER SHEET, OR BY DIRECT CONTACT WITH THE CUSTOMER.

DEPOSIT ACCOUNT NUMBER: 162372
PROPERTY NUMBER: 09937210

RECORDING FEES:

FEE CODE: 581 AMOUNT: 40

IF YOU HAVE ANY QUESTIONS REGARDING THIS NOTICE, YOU MAY CONTACT THE INDIVIDUAL WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.

TARA WASHINGTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

TRADEMARK SERVICE FEES: FEE CODE:

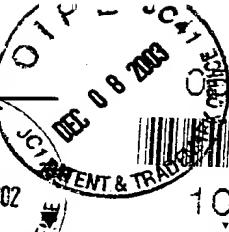
RECORDING FIRST MARK	481
RECORDATION SECOND AND	482
SUBSEQUENT MARK IN SAME DOCUMENT	
LABOR CHARGES FOR SERVICES PER HOURS	484
OR FRACTION THEREOF	
UNSPECIFIED OTHER SERVICES	485

PATENT SERVICE FEES:

RECORDING EACH PATENT ASSIGNMENT, AGREEMENT, OTHER PAPER, PER PROPERTY	581
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LABOR CHARGES FOR SERVICES PER HOUR	584
(\$30) OR FRACTION THEREOF	
UNSPECIFIED OTHER SERVICES	585

APR 30 2002



04-24-2002

102102493

cket No.: KD-01-004US

ET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

1756

Tab settings ➡ ➡ ➡ ➡ ➡

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies) DOANE, Joseph W. KHAN, Asad A. SEED, Alexander J. <i>5.6.02</i>		2. Name and address of receiving party(ies): Name: KENT DISPLAYS, INC. Address: 343 Portage Blvd. <i>RECEIVED MAY 06 2002 TC 1700</i>
Additional names(s) of conveying party(ies) <input type="checkbox"/> Yes <input type="checkbox"/> No		
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____		City: KENT State/Prov.: OH Country: US ZIP: 44240
Execution Date: September 24, 2001		Additional name(s) & address(es) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4. Application number(s) or patent numbers(s): If this document is being filed together with a new application, the execution date of the application is: _____		
Patent Application No. 210 09/937,204	Filing date September 24, 2001	B. Patent No.(s) <i>RECEIVED MAY 17 2002 TC 1700</i>
Additional numbers		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Raymond H. J. Powell, Jr. Registration No. 34,231 Address: WESTERLUND · POWELL, P.C. 100 Daingerfield Rd. Suite 100 City: Alexandria State/Prov.: VA Country: US ZIP: 22314		6. Total number of applications and patents involved: 1
		7. Total fee (37 CFR 3.41): \$ 40.00
		<input type="checkbox"/> Enclosed - Any excess or insufficiency should be credited or debited to deposit account <input checked="" type="checkbox"/> Authorized to be charged to deposit account
8. Deposit account number: 16-2372		(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Raymond H. J. Powell, Jr.

04/30/2002

Name of Person Signing

Signature

Date

6

Total number of pages including cover sheet, attachments, and

RECORDATION FORM COVER SHEET

PATENTS ONLY

Tab settings ➔ ➔ ➔ ▼

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): DOANE, Joseph W. KHAN, Asad A. SEED, Alexander J.</p> <p>APR 3 0 2002</p> <p>Additional names(s) of conveying party(ies): SEED, Alexander J.</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>		<p>2. Name and address of receiving party(ies): KENT DISPLAYS, INC. Address: 343 Portage Blvd.</p> <p>RECEIVED MAY 17 2002 TC 1700</p>									
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p> <p>Execution Date: September 24, 2001</p>		<p>City: KENT State/Prov.: OH Country: US ZIP: 44240</p> <p>Additional name(s) & address(es) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>									
<p>4. Application number(s) or patent numbers(s): If this document is being filed together with a new application, the execution date of the application is:</p> <table border="1"> <tr> <td>Patent Application No. 210 09/937,201</td> <td>Filing date September 24, 2001</td> <td>B. Patent No.(s)</td> </tr> <tr> <td colspan="2"></td> <td>RECEIVED MAY 06 2002 TC 1700</td> </tr> <tr> <td colspan="3">Additional numbers <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> </table>			Patent Application No. 210 09/937,201	Filing date September 24, 2001	B. Patent No.(s)			RECEIVED MAY 06 2002 TC 1700	Additional numbers <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Patent Application No. 210 09/937,201	Filing date September 24, 2001	B. Patent No.(s)									
		RECEIVED MAY 06 2002 TC 1700									
Additional numbers <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No											
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Raymond H. J. Powell, Jr.</p> <p>Registration No. 34,231</p> <p>Address: WESTERLUND · POWELL, P.C.</p> <p>100 Daingerfield Rd.</p> <p>Suite 100</p> <p>City: Alexandria State/Prov.: VA</p> <p>Country: US ZIP: 22314</p>		<p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR 3.41): \$ 40.00</p> <p><input type="checkbox"/> Enclosed - Any excess or insufficiency should be credited or debited to deposit account</p> <p><input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: 16-2372</p> <p>(Attach duplicate copy of this page if paying by deposit account)</p>									

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Raymond H. J. Powell, Jr.

Name of Person Signing

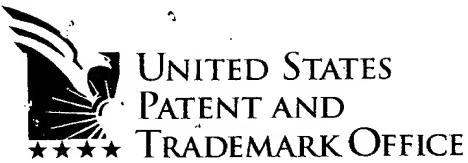
Signature

04/30/2002

Date

Total number of pages including cover sheet, attachments, and

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231



JULY 23, 2002

PTAS

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

WESTERLUND POWELL, P.C.
RAYMOND H. J. POWELL, JR.
100 DAINGERFIELD RD. SUITE 100
ALEXANDRIA, VA 22314



102102493A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/06/2002

REEL/FRAME: 012913/0254

NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

DOANE, JOSEPH W.

DOC DATE: 09/24/2001

ASSIGNOR:

KHAN, ASAD A.

DOC DATE: 09/24/2001

ASSIGNOR:

SEED, ALEXANDER J.

DOC DATE: 09/24/2001

ASSIGNEE:

KENT DISPLAYS, INC.
343 PORTAGE BLVD.
KENT, OHIO 44240

SERIAL NUMBER: 09937210

FILING DATE: 09/24/2001

PATENT NUMBER:

ISSUE DATE:

TARA WASHINGTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

Assignment of Rights, Title and Interest in Invention (Multiple inventors; multiple assignees)

Docket No.
KD-01-004US

This is an Assignment of the following rights, title and interest: (check all that apply):

United States of America rights, title and interest in the invention

Foreign rights, title and interest in the invention

United States Patent Application Serial No. 09/937,210

APR 30 2002 Date of Execution: 09/24/2001

Date of Filing: 09/24/2001

United States Provisional Patent Application Serial No. 60/210,485 (June 9, 2000)

United States Patent No(s).

International (PCT) Patent Application Serial No. PCT/US01/14842 (June 8, 2001)

Other (specify)

Title of the Invention

CHIRAL ADDITIVES FOR CHOLESTERIC DISPLAYS

Inventors (assignors)

<i>Name</i>	<i>Address</i>
Joseph W. Doane	340 Oakwood Drive, Kent OH 44240 USA
Asad A. Khan	901 Admore Drive, Kent OH 44240 USA
Alexander J. Seéd	4071 Baird Road, Stow OH 44224 USA

[Page 1 of 4]

AS04A/REV01

**Assignment of Rights, Title and Interest in Invention
(Multiple inventors; multiple assignees)**

Docket No.
KD-01-004US

Assignees

<i>Name</i>	<i>Address</i>
KENT DISPLAYS, INC.	343 Portage Blvd. Kent OH 44240
KENT STATE UNIVERSITY	P.O. Box 5190 Kent, OH 44242

Assignment of Rights, Title and Interest in Invention (Multiple inventors; multiple assignees)

Docket No.
KD-01-004US

Whereas, we, the above-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

And, whereas we desire to assign our above-identified rights, title and interest in the Invention to the above-identified Assignees;

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said Invention based upon said application(s) as identified above, said patents, domestic and forein as identified above, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of said application(s) for patents or securing of patents in the United States and countries foreign thereto, unto said Assignees, who will hold said rights, title and interest in equal shares;

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters Patent which may issue for said Invention to said Assignees, as co-assignees of the whole right, title and interest thereto;

And we further agree to sign and execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for our aforesaid Invention, as the Assignees or their Designee(s) may from time to time require and prepare at their own expense.

Inventors' Signatures (if Notarization is desired, do not sign here and proceed to next page)

Assignment of Rights, Title and Interest in Invention
(Multiple inventors; multiple assignees)

Docket No.
KD-01-004US

Notarization

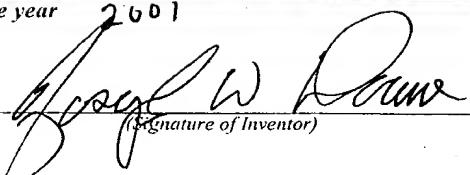
(Although notarization is not necessary, it will be considered *prima facie* evidence of execution pursuant to 35 U.S.C. 261.)

Executed this 11 day of October , in the year 2001
at

Kent Displays, Inc.

State of Ohio

County of Portage

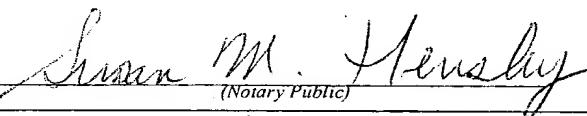

(Signature of Inventor)

Before me personally appeared Joseph W. Doane

who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to execute the same this 11 day of October , in the year 2001

SUSAN M. HENSLEY

NOTARY PUBLIC, STATE OF OHIO
MY COMMISSION EXPIRES AUG. 2, 2004

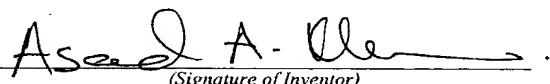

(Notary Public)

Executed this 11 day of October , in the year 2001
at

Kent Displays, Inc.

State of Ohio

County of Portage

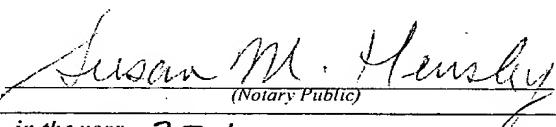

(Signature of Inventor)

Before me personally appeared Asad A. Khan

who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to execute the same this 11 day of October , in the year 2001

SUSAN M. HENSLEY

NOTARY PUBLIC, STATE OF OHIO
MY COMMISSION EXPIRES AUG. 2, 2004


(Notary Public)

Executed this 11th day of October , in the year 2001
at

Kent,

State of Ohio

County of Portage


(Signature of Inventor)

Before me personally appeared Alexander J. Seed

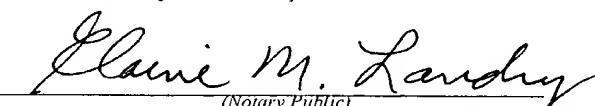
who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to execute the same this 11th day of October , in the year 2001

ELAINE M. LANDRY, Notary Public

97 NT 0262

State Wide Jurisdiction, Ohio

My Commission Expires Sept. 1, 2002


(Notary Public)